





FIG. 3A

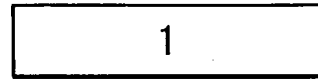
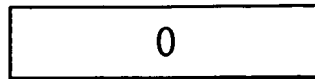


FIG. 3B

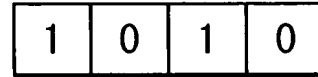
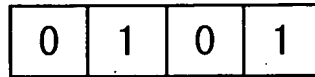


FIG. 3C



FIG. 3D

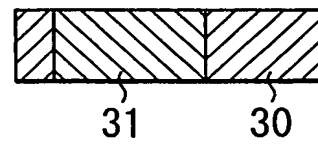
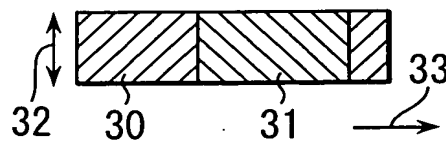


FIG. 4A

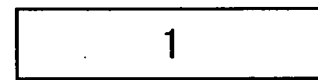
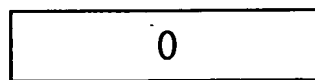


FIG. 4B



FIG. 4C



FIG. 4D

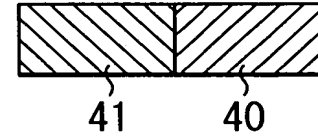
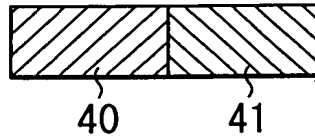


FIG. 5A

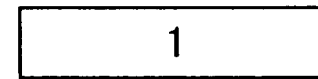
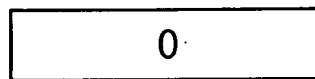


FIG. 5B

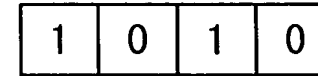
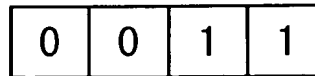


FIG. 5C



FIG. 5D

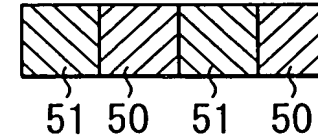
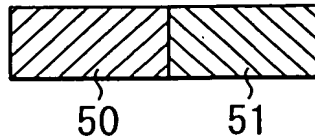


FIG. 3D

FIG. 6A 1111000011001111
 FIG. 6B 10101010101010010101010101010101010101010101
 1010101010101010
 FIG. 6C -1111-1111-1111-2-1111-1111-1111-1111-2-1111-1111
 -111111-1111-1111
 FIG. 6D 111111111111101111111111111110111111111111
 1111111111111111
 FIG. 6E 10101010101010010101010101010101010101010101
 1010101010101010

FIG. 7A 1111
 FIG. 7B 00001100
 FIG. 7C 1111
 FIG. 7D 1010 1010 1010 1010
 FIG. 7E 0101 0101 0101 0101 1010 1010 0101 0101
 FIG. 7F 1010 1010 1010 1010

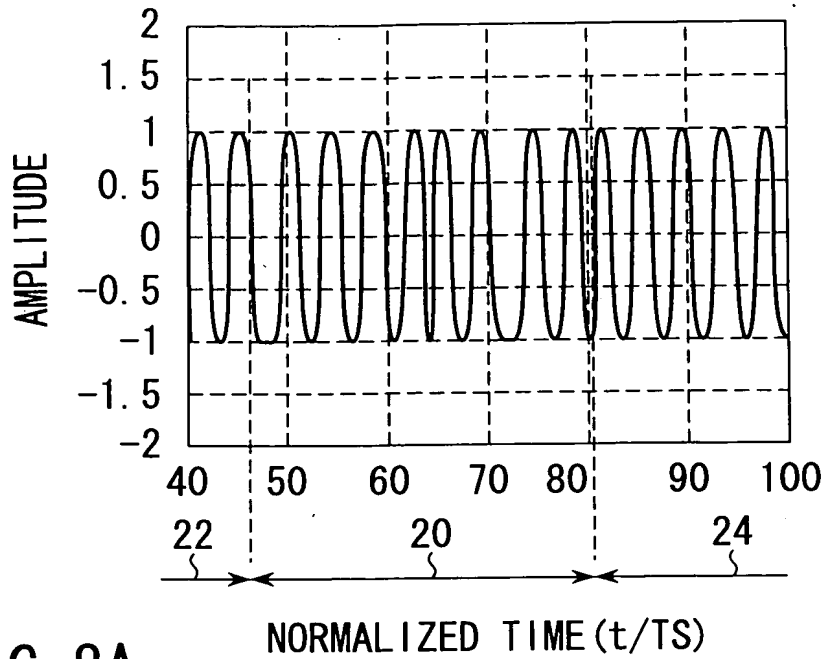


FIG. 8A

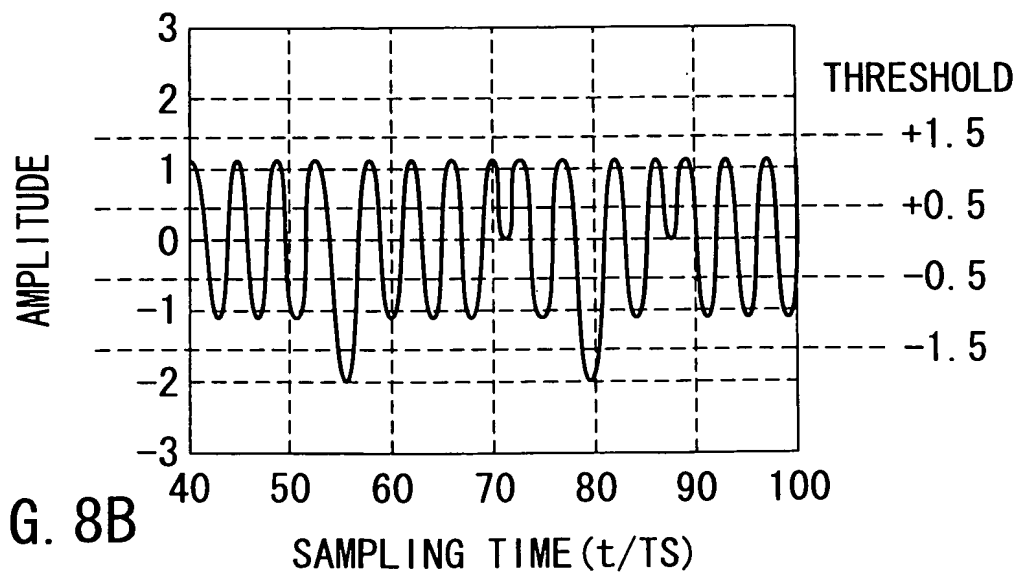


FIG. 8B

FIG. 8B: 11/24/01

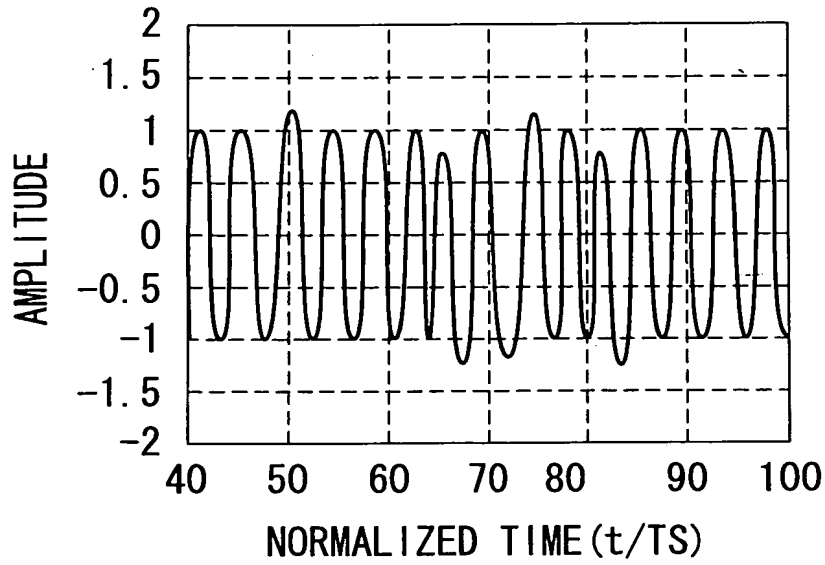


FIG. 9A

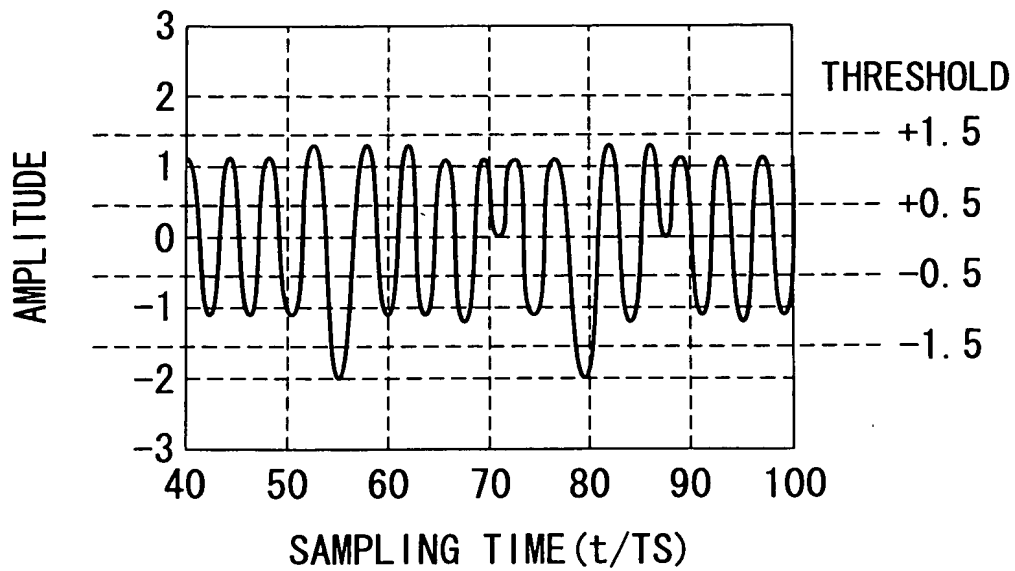


FIG. 9B

0	→	0000
1	→	1010

FIG. 10A

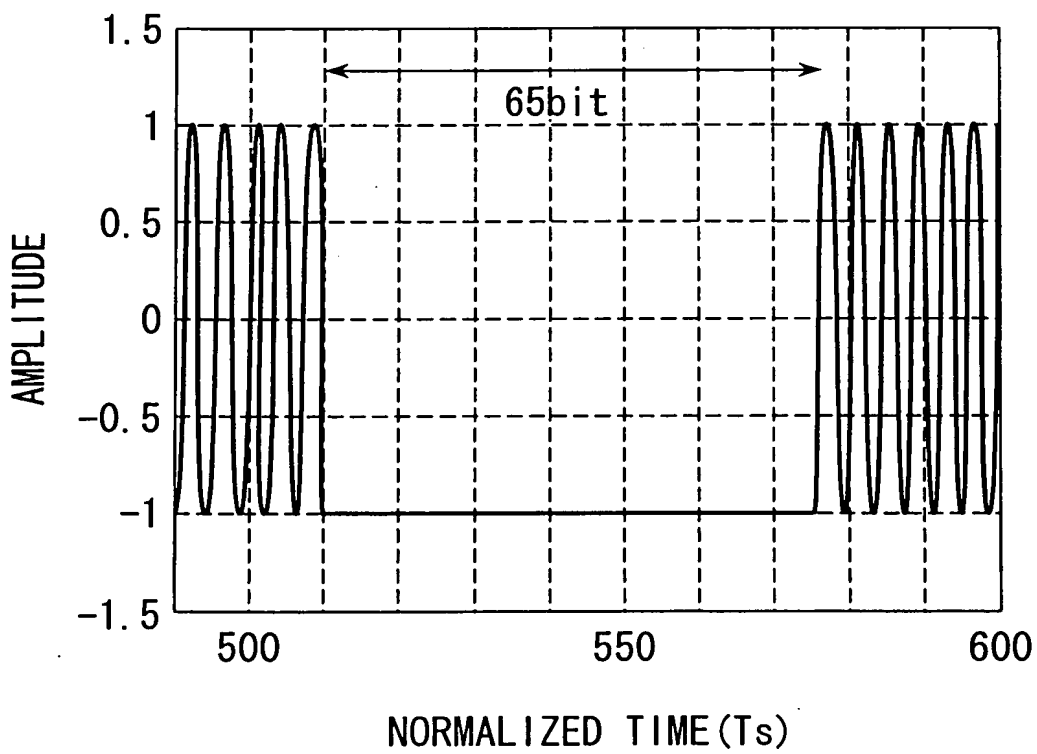


FIG. 10B

0942741.03101

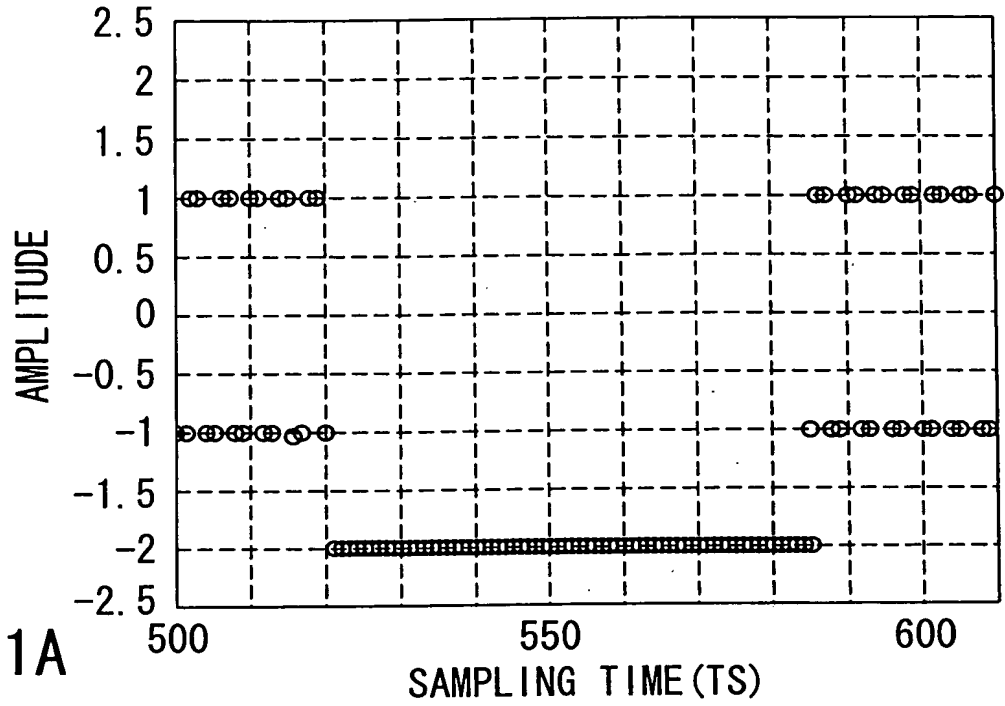


FIG. 11A

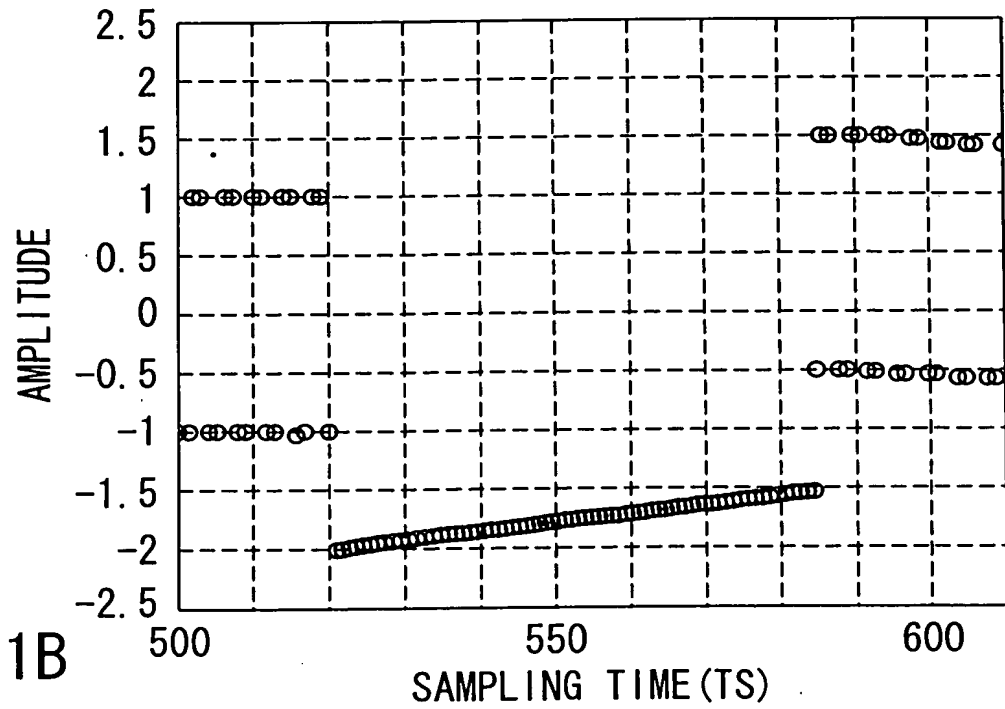
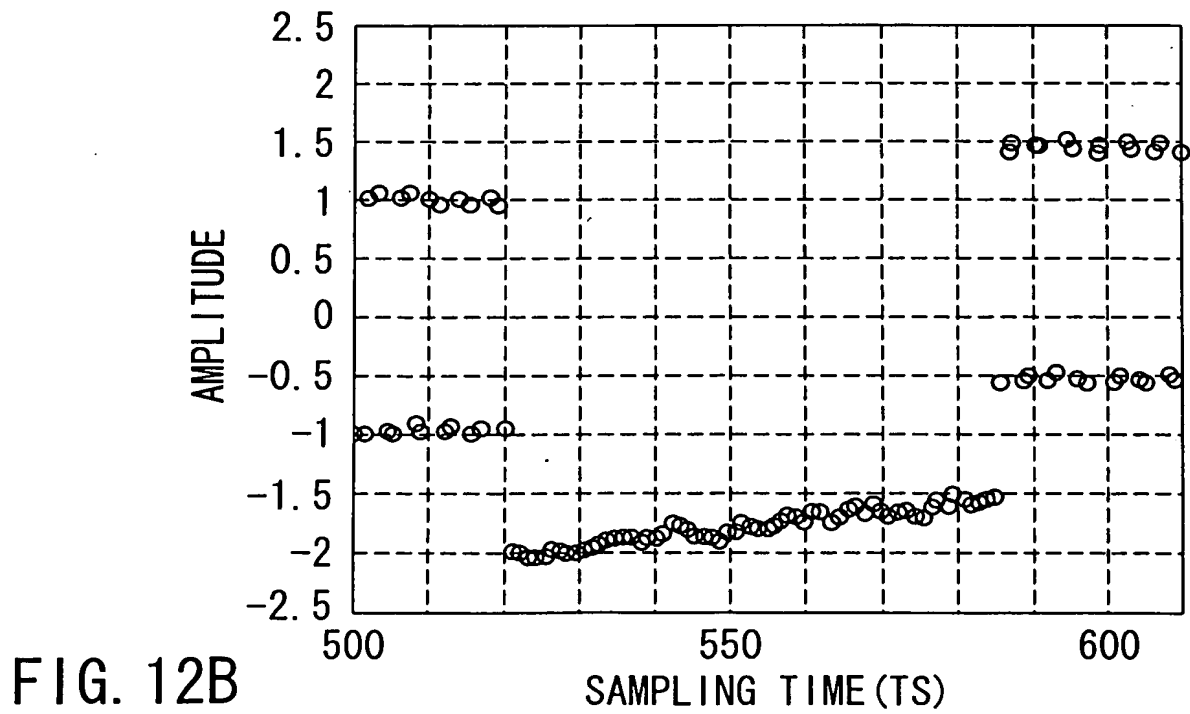
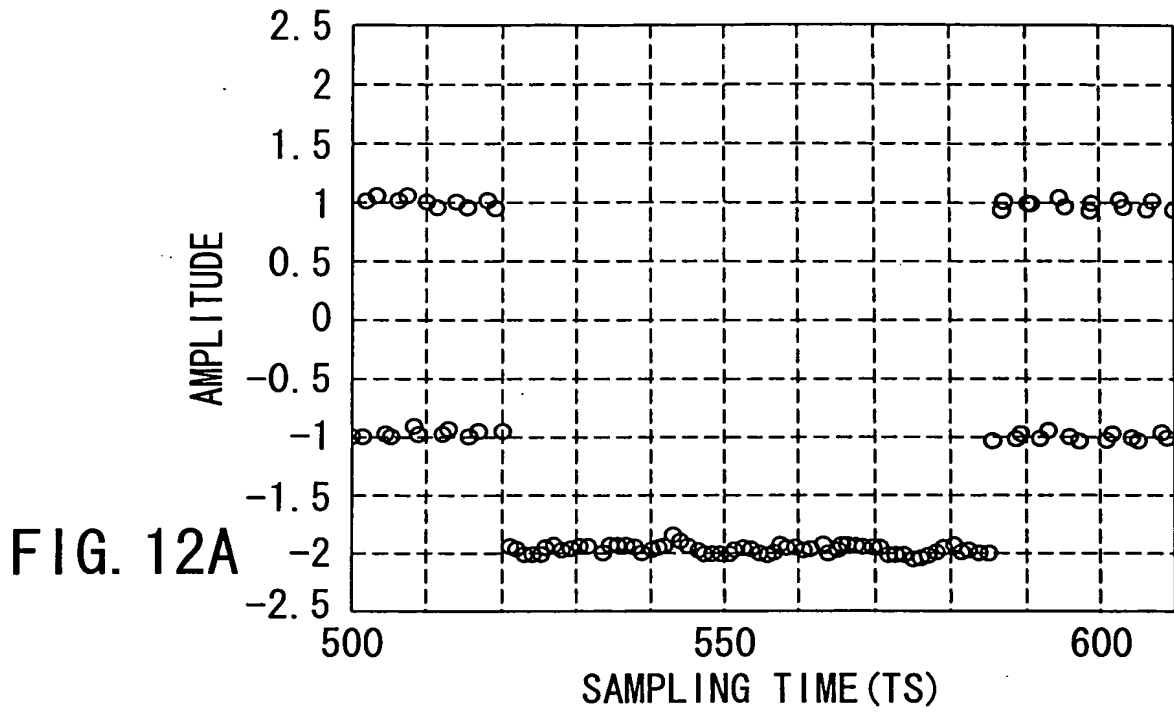


FIG. 11B



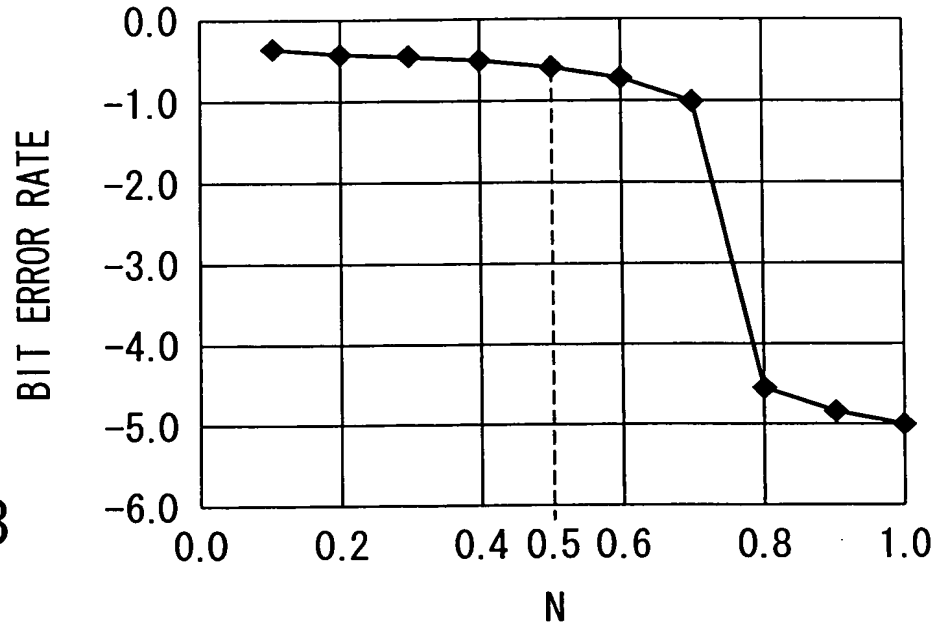


FIG. 13

Tmin=65 (bit)			
N	$f_c = \frac{-\ln N}{2\pi T_{min}}$		
		BER	BER(log)
0.1	5.64E-03	4.46E-01	-0.3506
0.2	3.94E-03	4.09E-01	-0.3880
0.3	2.95E-03	3.81E-01	-0.4192
0.4	2.24E-03	3.44E-01	-0.4631
0.5	1.70E-03	2.97E-01	-0.5272
0.6	1.25E-03	2.26E-01	-0.6454
0.7	8.73E-04	1.14E-01	-0.9419
0.8	5.46E-04	2.93E-05	-4.5324
0.9	2.58E-04	1.49E-05	-4.8268
1.0	0.00E+00	1.10E-05	-4.9586

FIG. 14

FIG. 13



FIG. 18F (PRIOR ART) 1010 1010 1010 1010

FIG. 16A
(PRIOR ART)

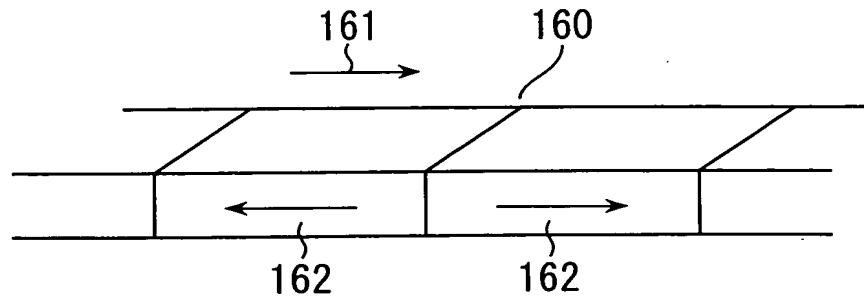


FIG. 16B
(PRIOR ART)

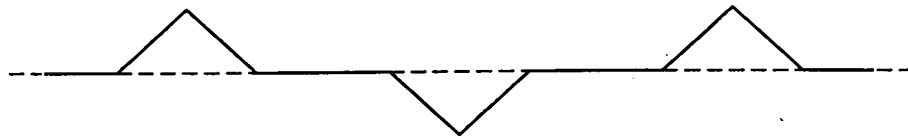


FIG. 17A
(PRIOR ART)

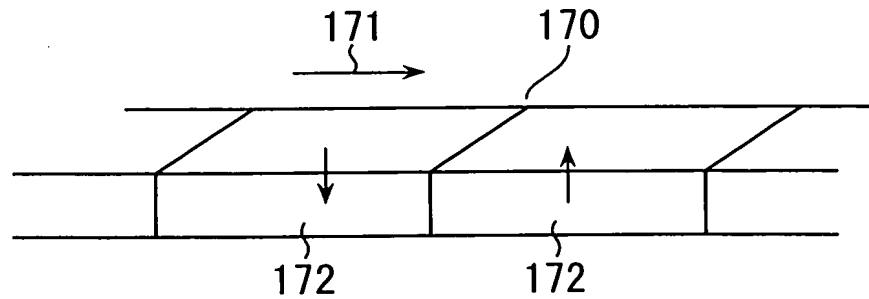
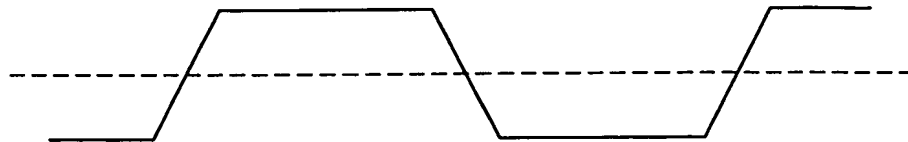
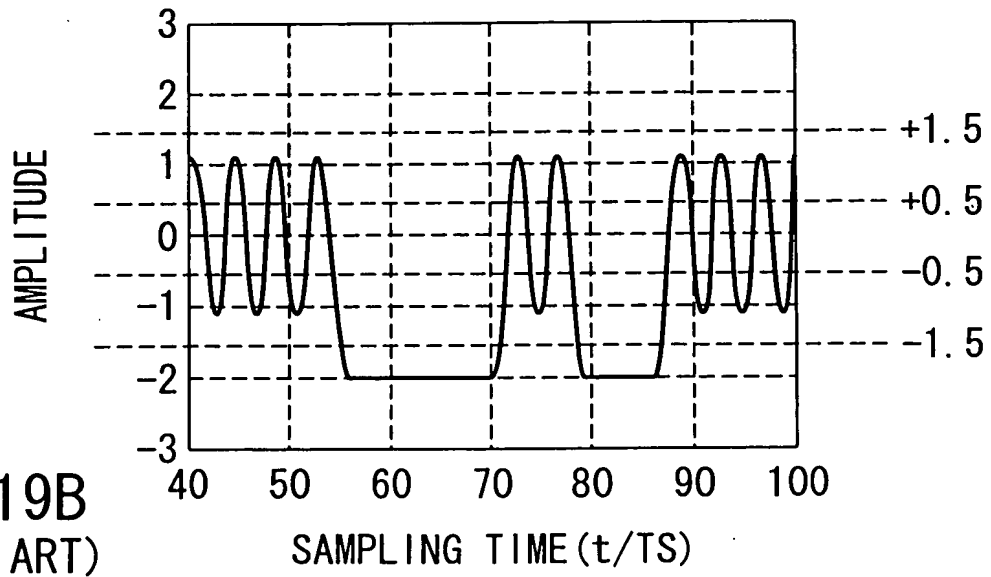
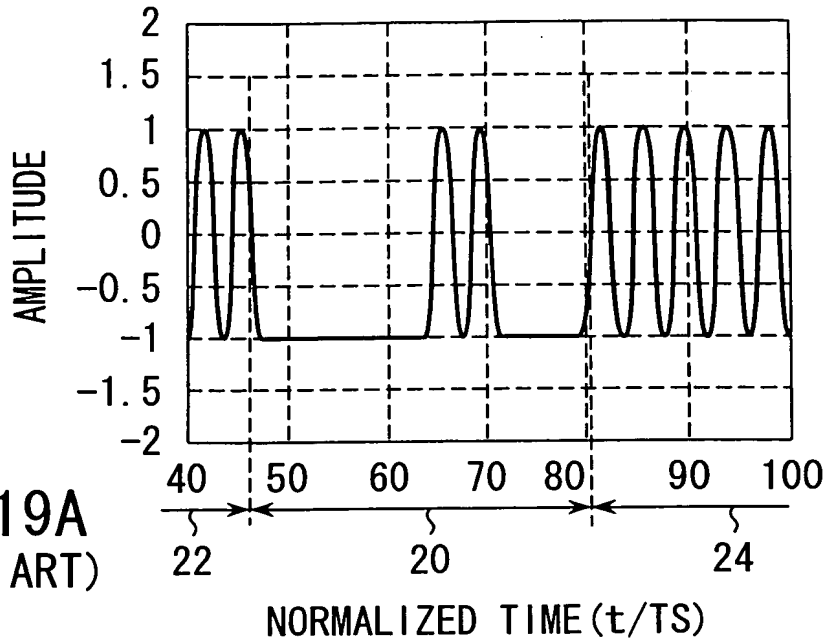


FIG. 17B
(PRIOR ART)





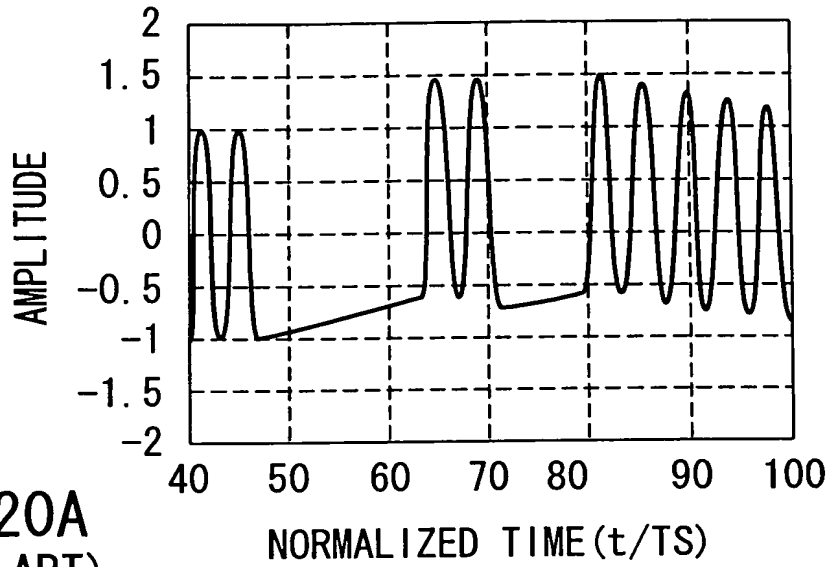


FIG. 20A
(PRIOR ART)

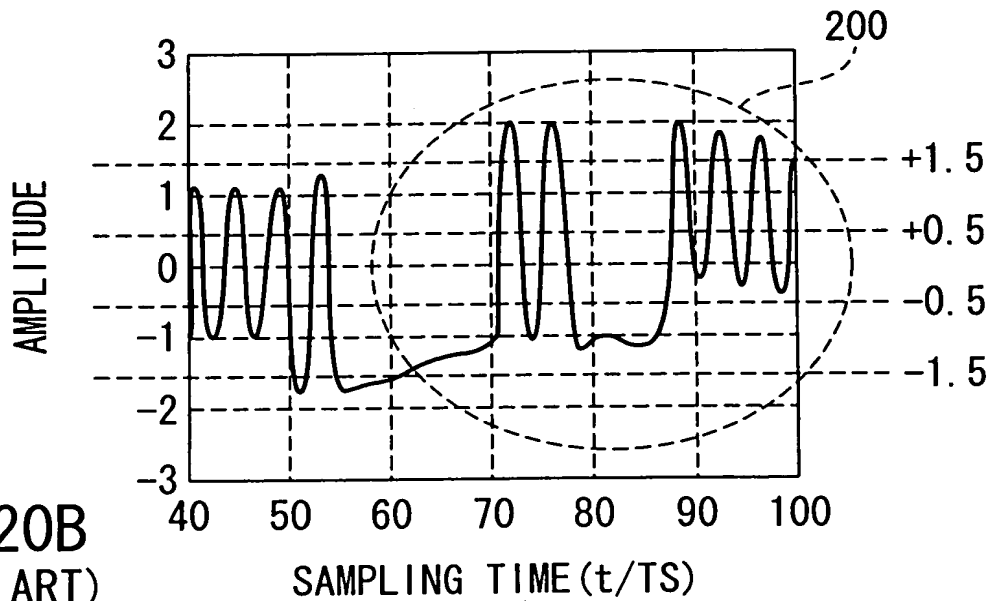


FIG. 20B
(PRIOR ART)